

Title (en)

CAD (COMPUTER-AIDED DECISION) SUPPORT FOR MEDICAL IMAGING USING MACHINE LEARNING TO ADAPT CAD PROCESS WITH KNOWLEDGE COLLECTED DURING ROUTINE USE OF CAD SYSTEM

Title (de)

UNTERSTÜTZUNG FÜR CAD (COMPUTER-AIDED DECISION) FÜR DIE MEDIZINISCHE ABBILDUNG DURCH VERWENDUNG VON MASCHINENLERNEN ZUR ANPASSUNG EINES CAD-PROZESSES MIT WÄHREND DER ROUTINEBENUTZUNG DES CAD-SYSTEMS GESAMMELTEM WISSEN

Title (fr)

SUPPORT DE DECISION ASSISTEE PAR ORDINATEUR POUR IMAGERIE MEDICALE FAISANT APPEL A L'APPRENTISSAGE MACHINE POUR ADAPTER LE PROCESSUS DE DECISION ASSISTEE PAR ORDINATEUR AUX CONNAISSANCES COLLECTEES LORS DE L'UTILISATION COURANTE DU SYSTEME DE DECISION ASSISTEE PAR ORDINATEUR

Publication

**EP 1639524 A2 20060329 (EN)**

Application

**EP 04777218 A 20040628**

Priority

- US 2004020760 W 20040628
- US 48355903 P 20030627
- US 87726304 A 20040625

Abstract (en)

[origin: WO2005001742A2] CAD (computer-aided decision) support systems, methods and tools for medical imaging are provided, which use machine learning classification for automated detection and marking of regions of interest in medical images. Machine learning methods are used for adapting/optimizing a CAD process by seamlessly incorporating physician knowledge into the CAD process using training data that is obtained during routine use of the CAD system.

IPC 1-7

**G06K 9/62**

IPC 8 full level

**A61B 5/00** (2006.01); **A61B 8/00** (2006.01); **A61B 8/12** (2006.01); **A61B 8/14** (2006.01); **G06F 17/00** (2006.01); **G06F 17/50** (2006.01); **G06K 9/00** (2006.01); **G06K 9/62** (2006.01); **G06N 5/00** (2006.01); **G06T 7/00** (2006.01); **H03K 19/00** (2006.01)

CPC (source: EP US)

**G06T 7/0012** (2013.01 - EP US); **G16H 30/20** (2017.12 - EP US); **G16H 30/40** (2017.12 - EP US); **G16H 50/20** (2017.12 - EP US); **G06T 2207/30004** (2013.01 - EP US); **G16H 40/63** (2017.12 - EP US); **Y10S 128/922** (2013.01 - EP US)

Citation (search report)

See references of WO 2005001742A2

Designated contracting state (EPC)

DE FR

DOCDB simple family (publication)

**WO 2005001742 A2 20050106**; **WO 2005001742 A3 20050324**; AU 2004252917 A1 20050106; AU 2004252917 B2 20080925; CA 2530419 A1 20050106; CA 2530419 C 20140211; EP 1639524 A2 20060329; JP 2007528746 A 20071018; US 2005010445 A1 20050113; US 7529394 B2 20090505

DOCDB simple family (application)

**US 2004020760 W 20040628**; AU 2004252917 A 20040628; CA 2530419 A 20040628; EP 04777218 A 20040628; JP 2006517745 A 20040628; US 87726304 A 20040625